

10 an injection system for introducing fluid into the vessels
at pressures different from ambient pressure, said injection
system comprising:

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a movable fluid delivery probe;

15 fill ports for receiving the probe, said
probe being movable from one fill port to
another to deliver fluid;

sub C37
conduits connecting the fill ports and respective
wells;

20 valves for opening and closing said conduits, each
valve being operable to open to permit the delivery of
fluid from the probe to a respective well at a pressure
different from ambient pressure, and to close after
said delivery;

stirring mechanisms attached to said upper plate and
25 removable with the upper plate for stirring said reaction
mixtures, said stirring mechanisms extending down through the
openings in the upper plate and into respective wells, and

seals for sealing against leakage through said upper plate
openings when the upper plate is secured to the reactor block.

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179. (new) Apparatus as set forth in claim 178 further
comprising an injector manifold mounted on said reactor block
having a plurality of fill port seats in fluid communication with

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said conduits, said fill port seats being engageable by said fill ports.

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180. (new) A method of conducting a catalytic reaction in a plurality of pressurized vessels in a parallel reactor, said method comprising:

(1) loading each of said vessels with gaseous and liquid
5 reactants;

(2) allowing said reactants to reach equilibrium with respect to the concentration of gaseous reactant in the liquid reactant at a pressure greater than about 10 psig;

(3) inserting a fluid delivery probe into one of a plurality
10 of fill ports on the reactor communicating with a first vessel of said plurality of vessels,

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(4) injecting a quantity of a catalytic fluid from said probe for delivery through an open valve to the first pressurized vessel,

15 (5) effecting closure of the valve after injection of said catalytic fluid,

(6) withdrawing said probe from the fill port after closure of the valve, and

(7) repeating 3-6 for a second vessel of said plurality of
20 vessels.